

THE
WOONSOCKET
DRAWING FRAME



SPECIAL
COLL
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.W5
1900z

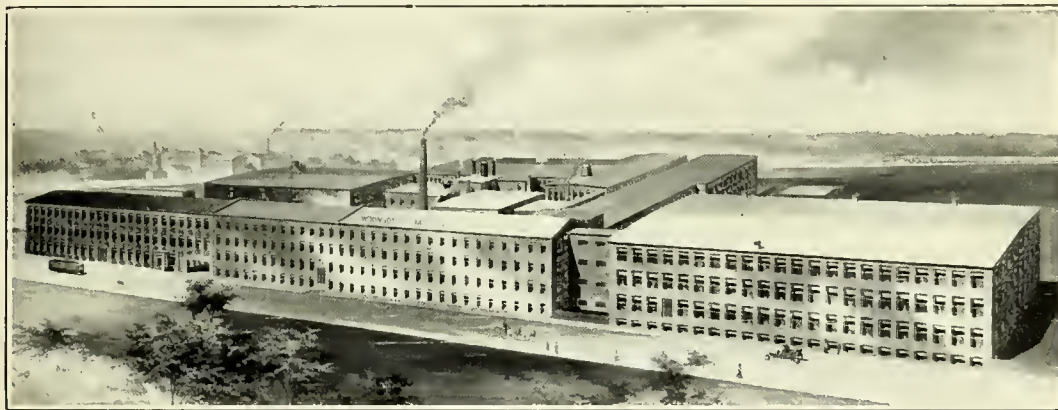
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DATE September 1955



ILLUSTRATED CATALOGUE of WOONSOCKET DRAWING FRAME

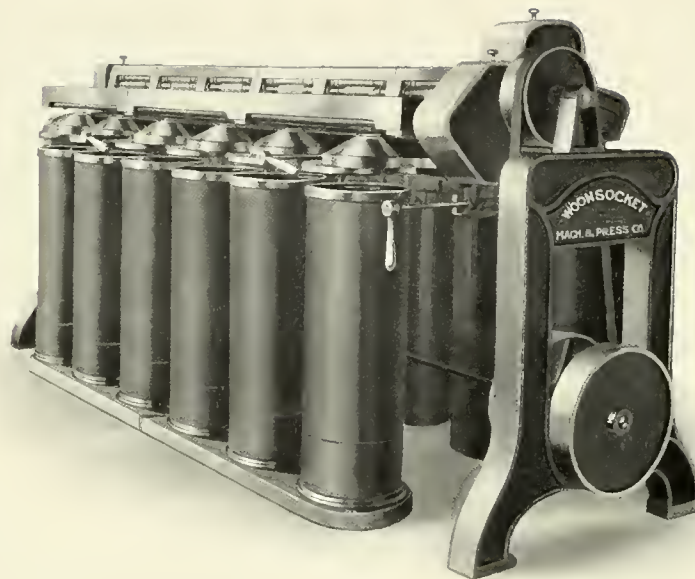


Woonsocket Machine and Press Co.
WOONSOCKET, RHODE ISLAND

Southern Representative :
J. H. MAYES, Independence Bldg.
Charlotte, N. C.

Northern Representative :
WM. V. THRELFALL, Marshall Bldg.
Boston, Mass.

WOONSOCKET MACHINE
AND PRESS COMPANY



SIX DELIVERIES

DRAWING FRAME

THE object in view in designing this Drawing Frame has been to build a strong, rigid frame without undue weight, which at the same time will be simple in construction, combined with accessibility of all its parts, and designed to meet thoroughly the exacting conditions in the cotton mill which a Drawing Frame must meet.

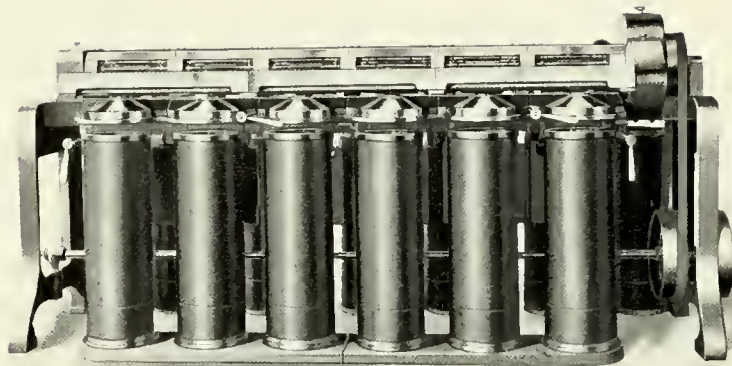
Particular attention is called to the fact that this Drawing Frame is so constructed that any part can be removed from the machine without disturbing adjacent parts or adjustments. Also, the middle sampson is so designed that it does not interfere with the cans at the back in any way. The back, front, and full can stop motions are positive and simple in their action.

FRAMING AND CONSTRUCTION: The framing of the machine is of unique construction, being made entirely of steel, patents of which are pending, which makes it extremely strong and rigid without the aid of cross bars or diagonals. Can tables are set on top of floor.

BOTTOM FLUTED ROLLS are made in one length and are irregularly fluted to prevent cutting of top rolls. The usual diameters are $1\frac{1}{4}$ inches or $1\frac{3}{8}$ inches front, $1\frac{1}{8}$ inches or 1 inch second, third and back lines.

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WOONSOCKET MACHINE
AND PRESS COMPANY



FRONT VIEW—SIX DELIVERIES

DRAWING FRAME

TOP ROLLS are usually one inch in diameter on the iron. The four lines have loose ends. We furnish either our ball-bearing, leather-covered, or metallic rolls, as desired.

CALENDER ROLLS are made of steel, turned, ground, polished, and are so arranged that each section can be taken out individually without disturbing any other section.

ROLLER STANDS have composition blocks in them for roller bearings, and are made with separate adjustable bearings so constructed that the top and bottom rolls move together when setting for different lengths of staple.

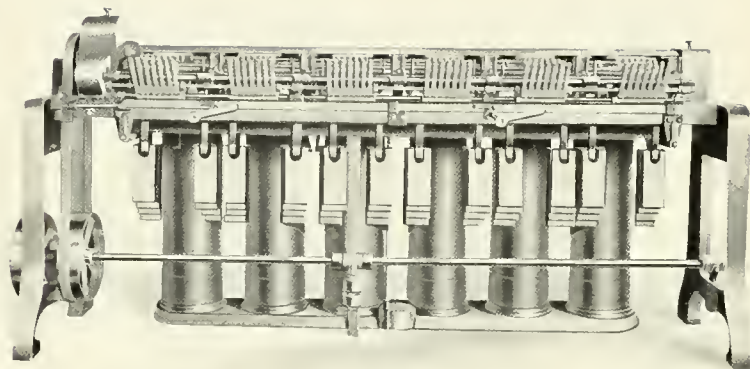
DRAFT GEARING. All draft and roller gears are cut. Draft changes are very easily made, it being necessary to change only one gear to alter the draft. The gearing is well protected with polished covers.

COILERS are made for cans, 36 inches long, 10 or 12 inches diameter, as required.

TRUMPETS. These are made separate from the calender roll plates, and can be taken out and replaced when worn.

BACK SLIVER GUIDES. These are so made as to separate the slivers and stop kinks from entering the rolls. Uneven work is thus prevented.

WOONSOCKET MACHINE
AND PRESS COMPANY



REAR VIEW—SIX DELIVERIES

DRAWING FRAME

TENSION. A close adjustment can be made for either ordinary or metallic rolls by means of our fine pitch gearing for the take-up of the sliver between the front rolls and calender rolls, thus reducing the breakage, sagging, and stretching of the sliver and preventing stoppages and waste.

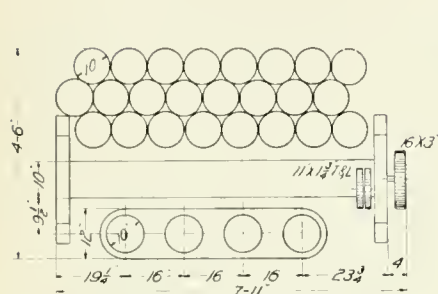
CLEARERS. Both top and bottom rolls have clearers. Calender roll clearers and covers can be taken out for cleaning and the like, without breaking the sliver between calender rolls.

WEIGHT-RELIEVING MOTION. This is applied to all frames for taking the pressure off the rolls when frames are stopped. All rolls are weighted separately. The usual weights are 20 pounds front line, 18 pounds second line, 16 pounds third line, and 14 pounds back line.

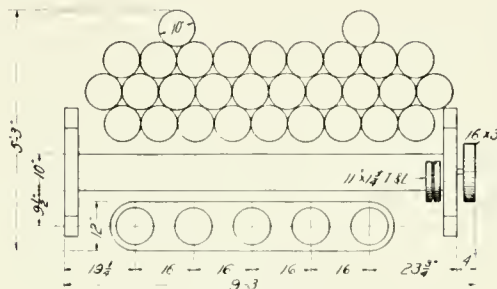
TRAVERSE MOTION is positive, and each part can be taken out without disturbing the adjustment of any other part, and is applied to all frames with leather-covered top rolls.

DRIVING PULLEY AND SPEED. The driving pulley on the bottom shaft is usually 16 inches diameter, 3 inch face, and can be placed at either end of the frame. The usual speed of this shaft is 250 r.p.m., which gives a calculated speed of 363 r.p.m. of front roll. Ratio of front roll to bottom shaft is 1.45.

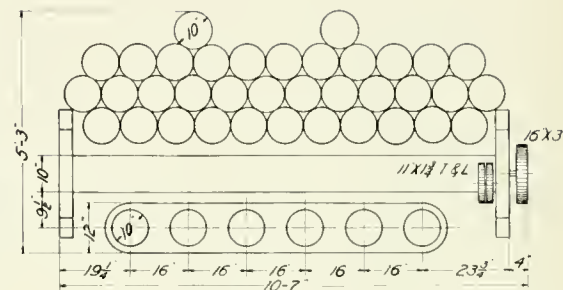
Drawing Frame Floor Plans



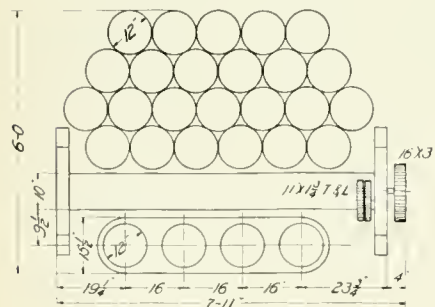
TEN INCH COILER
ONE HEAD OF FOUR DELIVERIES



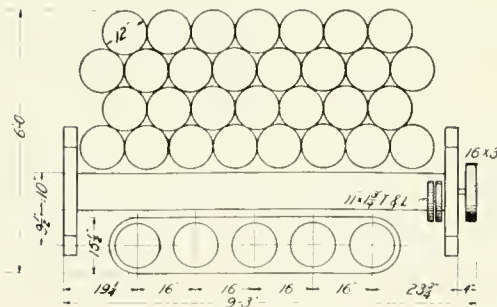
TEN INCH COILER
ONE HEAD OF FIVE DELIVERIES



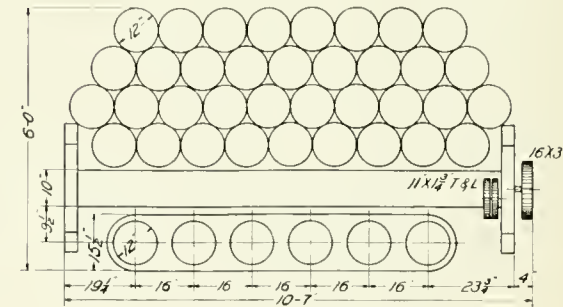
TEN INCH COILER
ONE HEAD OF SIX DELIVERIES



TWELVE INCH COILER
ONE HEAD OF FOUR DELIVERIES



TWELVE INCH COILER
ONE HEAD OF FIVE DELIVERIES



TWELVE INCH COILER
ONE HEAD OF SIX DELIVERIES



Drawing Frame

PRODUCTION PER DAY OF TEN HOURS

R.P.M. OF 1 $\frac{1}{4}$ INCHES DIAMETER FRONT ROLL	WEIGHT IN GRAINS OF ONE YARD OF SLIVER														
	35 LBS.	40 LBS.	45 LBS.	50 LBS.	55 LBS.	60 LBS.	65 LBS.	70 LBS.	75 LBS.	80 LBS.	85 LBS.	90 LBS.	95 LBS.	100 LBS.	
250	65	75	84	94	103	112	122	131	140	150	160	168	178	187	COMMON ROLLS
275	72	83	93	103	114	124	134	144	155	165	175	186	196	206	
300	79	90	101	113	124	135	146	159	168	180	191	202	213	224	
325	85	97	109	122	134	146	158	170	182	194	206	218	230	243	
350	92	105	118	131	144	157	170	183	196	209	223	236	249	262	
375	98	112	126	140	154	168	182	196	210	224	240	252	266	281	
400	105	120	135	150	165	180	194	209	224	239	254	269	284	299	
425	111	127	143	159	175	191	207	222	238	254	270	286	302	318	
450	118	135	151	168	185	202	219	236	252	269	286	303	320	337	
250	89	103	116	128	141	154	167	180	193	205	218	221	244	256	METALLIC ROLLS
275	98	112	126	140	154	168	182	196	210	224	238	252	266	280	
300	107	122	138	153	168	183	199	214	230	244	260	275	290	306	
325	116	132	149	166	182	199	215	232	248	265	282	298	314	331	
350	125	143	161	178	196	214	232	250	268	286	303	321	339	357	
375	134	153	172	191	210	230	249	268	287	306	325	344	364	382	
400	143	163	183	204	224	244	265	285	306	326	346	367	387	408	
425	151	173	195	216	238	260	281	302	320	346	368	390	411	433	
450	161	184	206	230	252	276	298	321	344	367	390	412	435	459	

NOTE.—In the above table 20 per cent has been allowed for cleaning, stoppages, etc.

Drawing Frame

PRODUCTION PER DAY OF TEN HOURS

R.P.M. OF 1 $\frac{3}{8}$ INCHES DIAMETER FRONT ROLL	WEIGHT IN GRAINS OF ONE YARD OF SLIVER														
	35 LBS.	40 LBS.	45 LBS.	50 LBS.	55 LBS.	60 LBS.	65 LBS.	70 LBS.	75 LBS.	80 LBS.	85 LBS.	90 LBS.	95 LBS.	100 LBS.	
250	75	85	96	106	117	128	138	149	160	170	181	192	202	213	COMMON ROLLS
275	82	94	105	117	129	141	152	164	176	187	199	211	223	234	
300	89	102	115	128	141	153	166	179	192	204	217	230	243	256	
325	97	111	125	138	152	166	180	194	208	222	235	249	263	277	
350	104	119	134	149	164	179	194	209	224	239	253	268	283	298	
375	112	128	144	160	176	192	208	224	240	256	272	288	304	320	
400	119	136	153	170	187	204	222	239	256	273	290	307	324	341	
425	127	145	163	181	199	217	235	253	272	290	307	326	344	362	
450	134	153	173	192	211	230	248	268	289	307	326	345	364	383	
250	99	113	127	141	155	169	183	197	211	225	239	253	267	282	METALLIC ROLLS
275	108	124	139	155	170	186	201	217	232	248	263	279	294	310	
300	118	135	152	169	186	203	220	236	253	270	287	304	321	338	
325	128	146	165	183	201	220	238	256	274	293	311	329	348	366	
350	138	158	177	197	217	236	256	276	296	315	335	355	374	394	
375	148	169	190	211	232	253	274	296	317	338	359	380	401	422	
400	158	180	203	225	248	270	293	315	338	360	383	405	428	450	
425	167	191	215	239	263	287	311	335	359	383	407	431	455	479	
450	177	203	228	253	279	304	329	355	380	405	431	456	481	507	

NOTE.—In the above table 20 per cent has been allowed for cleaning, stoppages, etc.

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Draft Constants and Drafts

One and one-quarter inch Front Roll

COMMON ROLLS

DRAFT CONSTANTS

48 Back Roll Gear	200.71
60 " " "	250.88
70 " " "	292.70

CHANGE GEARS	DRAFT CONSTANTS	TOTAL DRAFTS
67	200.71	3.00
61	200.71	3.29
57	200.71	3.52
53	200.71	3.79
62	250.88	4.05
59	250.88	4.25
56	250.88	4.48
53	250.88	4.73
50	250.88	5.01
56	292.70	5.23
51	292.70	5.42
52	292.70	5.63
49	292.70	5.97
47	292.70	6.23
45	292.70	6.50
43	292.70	6.80

METALLIC ROLLS

DRAFT CONSTANTS

50 Back Roll Gear	202.67
60 " " "	243.20
70 " " "	283.74

CHANGE GEARS	DRAFT CONSTANTS	TOTAL DRAFTS
67	202.67	3.02
62	202.67	3.25
58	202.67	3.49
54	202.67	3.75
50	202.67	4.05
54	243.20	4.28
53	243.20	4.59
51	243.20	4.76
49	243.20	4.96
54	283.74	5.24
52	283.74	5.46
49	283.74	5.79
47	283.74	6.04
45	283.74	6.30
43	283.74	6.59
41	283.74	6.91

NOTE:- Above Constants are calculated from Preventer Roll to Calender Roll.

Draft Constants and Drafts

One and three-eighths inch Front Roll

COMMON ROLLS

DRAFT CONSTANTS

45 Back Roll Gear	210.30
60 " " "	280.40
70 " " "	327.14

CHANGE GEARS	DRAFT CONSTANTS	TOTAL DRAFTS
70	210.30	3.00
64	210.30	3.29
60	210.30	3.50
56	210.30	3.76
52	210.30	4.04
66	280.40	4.25
62	280.40	4.52
59	280.40	4.75
56	280.40	5.00
53	280.40	5.29
51	280.40	5.50
57	327.14	5.74
55	327.14	5.95
52	327.14	6.29
50	327.14	6.54
48	327.14	6.81

METALLIC ROLLS

DRAFT CONSTANTS

45 Back Roll Gear	202.67
60 " " "	270.23
70 " " "	315.27

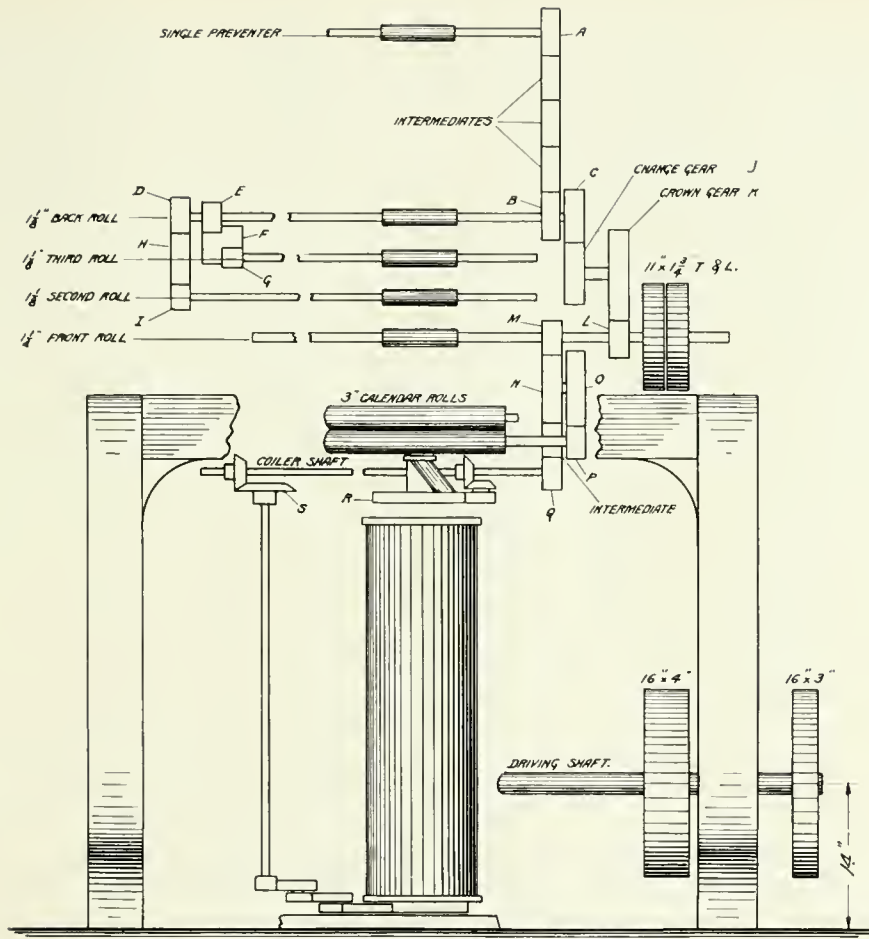
CHANGE GEARS	DRAFT CONSTANTS	TOTAL DRAFTS
67	202.67	3.02
62	202.67	3.25
58	202.67	3.49
54	202.67	3.75
50	202.67	4.05
63	270.23	4.29
60	270.23	4.50
57	270.23	4.75
54	270.23	5.00
51	270.23	5.30
58	315.27	5.44
55	315.27	5.73
52	315.27	6.06
50	315.27	6.30
48	315.27	6.56
46	315.27	6.85

NOTE.—Above Constants are calculated from Preventer Roll to Calender Roll.

Table for Numbering Card or Drawing Slivers

GRAINS PER YARD	HANK	GRAINS PER YARD	HANK	GRAINS PER YARD	HANK	GRAINS PER YARD	HANK
30	.278	48	.174	66	.126	84	.099
31	.269	49	.170	67	.124	85	.098
32	.260	50	.167	68	.122	86	.097
33	.252	51	.163	69	.121	87	.096
34	.245	52	.160	70	.119	88	.095
35	.238	53	.157	71	.117	89	.094
36	.232	54	.154	72	.116	90	.093
37	.225	55	.151	73	.114	91	.092
38	.219	56	.149	74	.113	92	.091
39	.214	57	.146	75	.111	93	.090
40	.208	58	.144	76	.110	94	.089
41	.203	59	.141	77	.108	95	.088
42	.198	60	.139	78	.107	96	.087
43	.194	61	.137	79	.105	97	.086
44	.189	62	.134	80	.104	98	.085
45	.185	63	.132	81	.103	99	.084
46	.181	64	.130	82	.102	100	.083
47	.177	65	.128	83	.100		

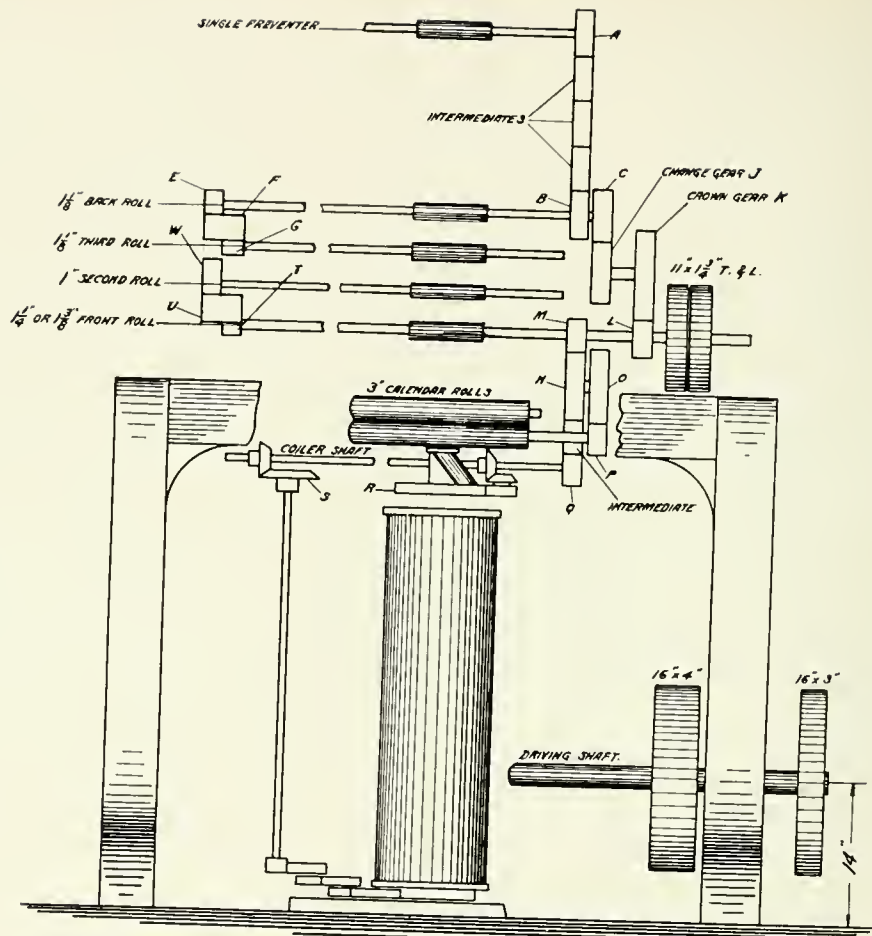
Alphabetical Index to Gearing Layout, Common Rolls



- A Preventer Roll Gear, 48 teeth.
- B Back Roll Gear driving Preventer Roll, 48 teeth.
- C Back Roll Gear, 45 to 70 teeth.
- D Driven End Back Roll Gear, 45 teeth.
- E Driven End Back Roll Gear driving third Roll, 26 teeth.
- F Intermediate Gear to third Roll, 56 teeth.
- G Third Roll Gear, 21 teeth.
- H Intermediate Gear to second Roll, 40 or 44 teeth.
- I Second Roll Gear, 24 teeth.
- J Draft Change Gear, 35 to 70 teeth.
- K Crown Gear, 108 teeth.
- L Front Roll Gear, 29 teeth.
- M Front Roll Calendar Driving Gear, 20 teeth.
- N-O Double Intermediate Gear, 65 and 104 teeth.
- P Calendar Roll Gear, for $1\frac{1}{4}$ -inch Front Roll, 75-76-77 teeth; for $1\frac{3}{8}$ -inch Front Roll, 68-69-70 teeth.
- Q Coiler Horizontal Shaft Gear, 30 teeth for 12-inch Can; 26 teeth for 10-inch Can.
- R Tube Wheel, 98 teeth.
- S Coiler Vertical Shaft Bevel Gear, 40 teeth.

Alphabetical Index to Gearing Layout, Metallic Rolls

- A Preventer Roll Gear, 38 teeth.
- B Back Roll Gear driving Preventer Roll, 56 teeth.
- C Back Roll Gear, 45 to 70 teeth.
- E Driven End Back Roll Gear driving third Roll, 29 teeth.
- F Intermediate Gear to third Roll, 30 teeth.
- G Third Roll Gear, 20 teeth.
- J Draft Change Gear, 35 to 70 teeth.
- K Crown Gear, 108 teeth.
- L Front Roll Gear, 29 teeth.
- M Front Roll Calender Driving Gear, 25 teeth.
- N-O Double Intermediate Gear, 60 and 98 teeth.
- P Calender Roll Gear, for $1\frac{1}{4}$ -inch Front Roll, 69-70-71 teeth; for $1\frac{3}{8}$ -inch Front Roll, 64-65-66 teeth.
- Q Coiler Horizontal Shaft Gear, 28 teeth for 12 inch Can; 24 teeth for 10-inch Can.
- R Tube Wheel, 98 teeth.
- S Coiler Vertical Shaft Bevel Gear, 40 teeth.
- T Driven End Front Roll Gear, 20 teeth.
- U Intermediate Gear to second Roll, 30 teeth.
- W Second Roll Gear, 40 teeth for $1\frac{1}{4}$ -inch Front Roll; 37 teeth for $1\frac{3}{8}$ -inch Front Roll.



Drawing Frame Calculations

DRAFT CALCULATIONS

Rule:—

$$\frac{A \times C \times K \times M \times D \times \text{Dia. of Calender Roll}}{B \times L \times N \times P \times \text{Dia. of Preventer Roll}} = \text{Draft Constant}$$

Example:—

Common Roll. Back Roll Gear (C)=48 teeth
Calender Roll Gear (P)=76 teeth

$$\frac{48 \times 48 \times 108 \times 20 \times 104 \times 3}{48 \times 29 \times 65 \times 76 \times 1\frac{1}{8}} = 200.71$$

Rule:—

$$\frac{\text{Draft Constant}}{\text{Draft Change Gear}} = \text{Draft}$$

Example:—

Draft Change Gear (J)=67 teeth

$$\frac{200.71}{67} = 3.00 \text{ Draft}$$

Rule:—

$$\frac{\text{Draft Constant}}{\text{Draft}} = \text{Draft Change Gear}$$

Example:—

Draft=3.52

$$\frac{200.71}{3.52} = 57 \text{ Draft Change Gear}$$

PRODUCTION CALCULATION

Rule:—

$$\frac{\text{R.P.M. of Front Roll} \times M \times O \times \text{Circumference of Calender Roll} \times \text{Wt. of Sliver in Grains} \times 600 \text{ (Min. in 10 hours)} \times .80 \text{ (Allowing 20\% for stoppages)}}{N \times P \times 7000 \text{ (Grains in 1 lb.)} \times 36 \text{ (Inches in 1 yd.)}} = \text{Lbs. in 10 hours}$$

Example:—

R.P.M. Front Roll=390

Circumference Calender Roll=9.4248

Wt. Sliver in Grains=59

$$\frac{390 \times 20 \times 101 \times 9.4248 \times 59 \times 600 \times .80}{65 \times 76 \times 7000 \times 36} = 113$$

FLOOR SPACE

To find total length of frame in inches for any number of heads:—

(Total number of deliveries x 16) plus (Number of heads x 23½) plus 7½ equals total length in inches

Example:—

Number deliveries in head=6

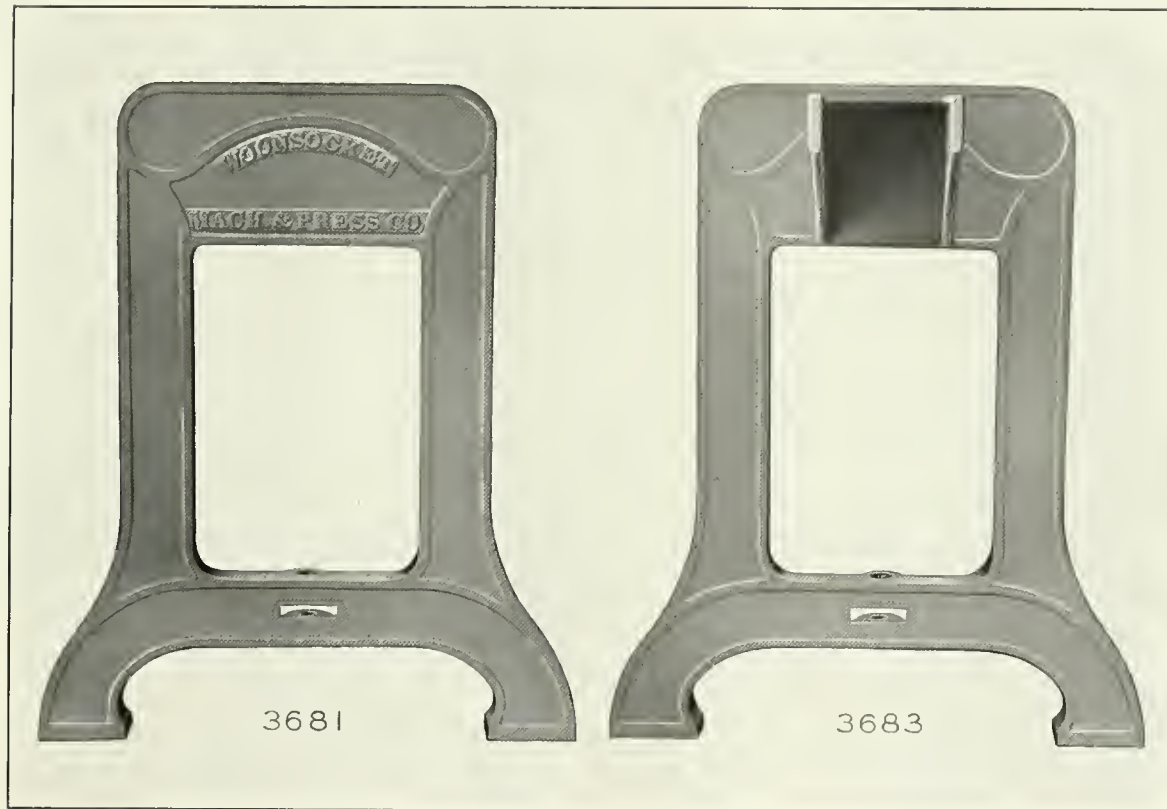
Number heads—2

$$(12 \times 16) + (2 \times 23\frac{1}{2}) + 7\frac{1}{2} = 246\frac{1}{2} \text{ inches or } 20' 6\frac{1}{2}''$$

WOONSOCKET MACHINE
AND PRESS COMPANY

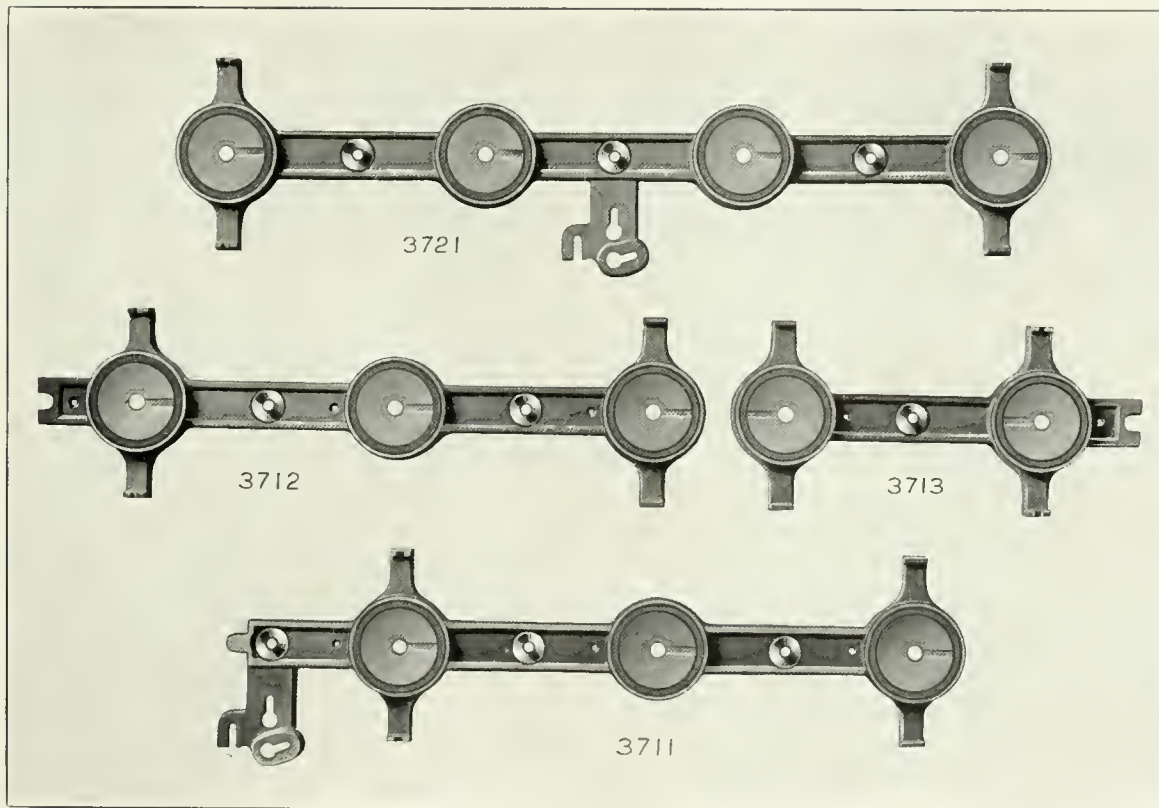
- No.
3681. Head End Sampson.
3682. Foot End Sampson.
3683. Connecting Sampson.

WOONSOCKET MACHINE
AND PRESS COMPANY



WOONSOCKET MACHINE
AND PRESS COMPANY

- No.
3711. Turn Table Base, 5 and 6 Del., Foot End.
3712. Turn Table Base, 6 Del., Head End.
3713. Turn Table Base, 5 Del., Head End.
3721. Turn Table Base, 4 Del.



WOONSOCKET MACHINE
AND PRESS COMPANY

- No.
4131. Turn Table Cover, 5 and 6 Del., Foot End.
4132. Turn Table Cover, 6 Del., Head End.



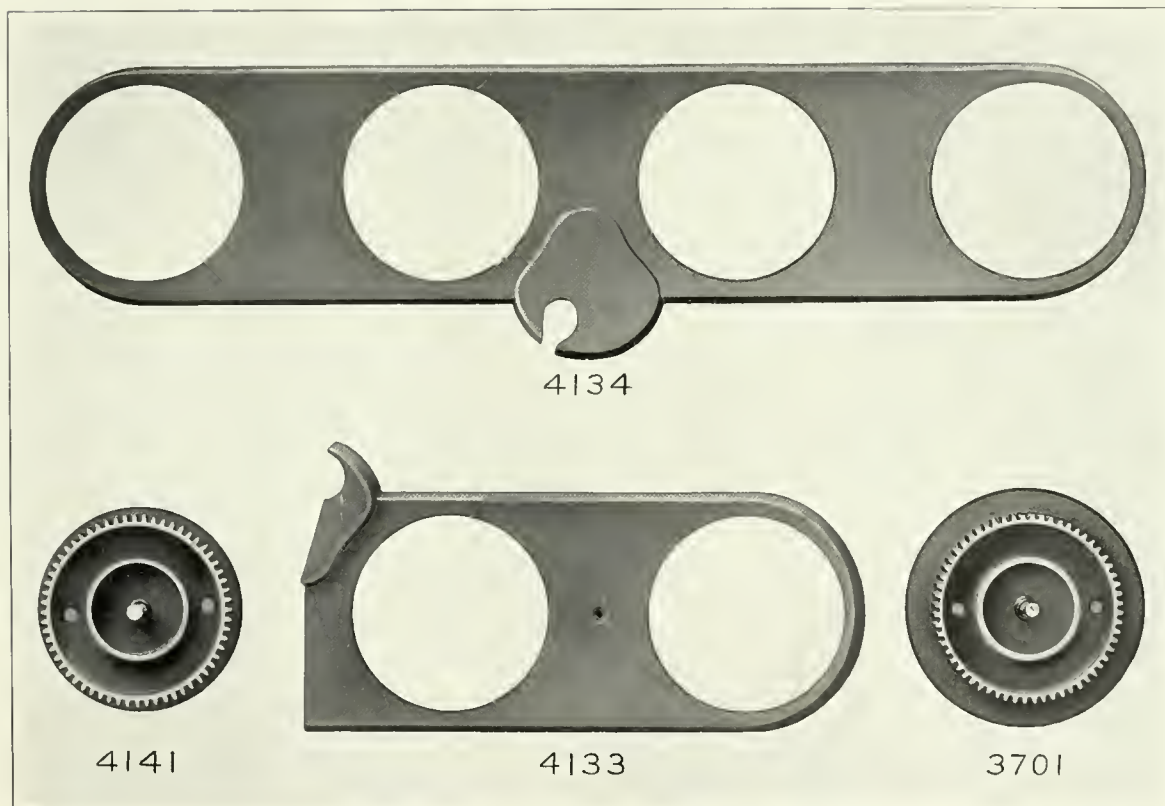
4131



4132

WOONSOCKET MACHINE
AND PRESS COMPANY

- No.
3701. 12" Can Bottom.
4133. Turn Table Cover, 5 Del., Head End.
4134. Turn Table Cover, 4 Del.
4141. 10" Can Bottom.

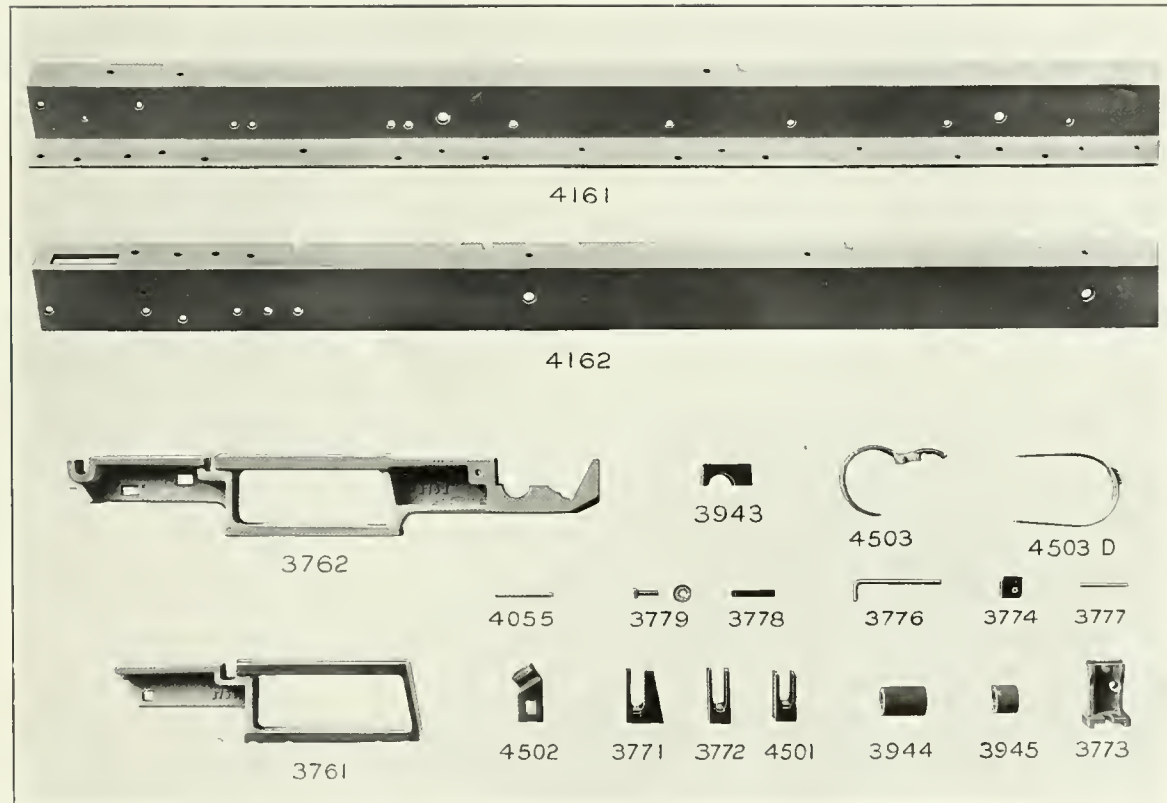


WOONSOCKET MACHINE
AND PRESS COMPANY

No.	
3881.	Z Bar, 5 Deliveries.
4161.	Z Bar, 4 Deliveries.
4171.	Z Bar, 6 Deliveries.
3882.	Angle Bar, 5 Deliveries.
4162.	Angle Bar, 4 Deliveries.
4172.	Angle Bar, 6 Deliveries.
3761.	Short Roll Stand.
3762.	Long Roll Stand.
3771.	Front Roll Bearing.
3772.	$1\frac{1}{8}$ " Rear Roll Bearing for $1\frac{1}{4}$ " Front Roll.
3773.	Common Clearer Cover Stand.
3774.	Second and Third Roll Bearing Cap.

No.	
3776.	Roll Bearing Cap Pin.
3777.	Common Clearer Cover Hinge Pin.
3778.	Roll Bearing Brass.
3779.	Roll Bearing Bolt.
3943.	Back Calender Roll Bearing Cap.
3944.	Front Calender Roll Bearing, Ends.
3945.	Front Calender Roll Bearing, Middle.
4055.	Calender Roll Cover Pin.
4501.	$1\frac{1}{8}$ " Rear Roll Bearing for $1\frac{1}{4}$ " and $1\frac{3}{8}$ " Front Roll.
4502.	Short Roll Stand Extension.
4503.	Calender Roll Gear Guard, Regular.
4503D.	Calender Roll Gear Guard, Old Style.

WOONSOCKET MACHINE
AND PRESS COMPANY



WOONSOCKET MACHINE
AND PRESS COMPANY

No.		No.	
3731.	Main Shaft Bearing.	3982.	Inside Main Pulley.
3732.	Main Shaft Bearing Yoke.	3984.	Main Shaft Coupling.
3733.	Main Shaft Bearing Yoke Nut.	3986.	Main Shaft Collar.
3734.	Main Shaft Bearing Yoke Adjusting Screw.	4011.	Outboard Bearing Support.
3735.	Main Shaft Bearing Yoke Pintle Screw.	4021.	Main Shaft Belt Shifter Slide.
3821.	Main Driving Shaft, 6 Del.	4022.	Main Shaft Belt Shifter Handle.
3921.	Main Driving Shaft, 4 Del.	4023.	Main Shaft Belt Shifter Handle Pin.
4071.	Main Driving Shaft, 5 Del.	4031.	Main Shaft Belt Shifter Fork.
3981.	Outside Main Pulley.		

3921

3981

4011

3982

3733

3734

3732

3735

4031

4021

4022

3984

3731

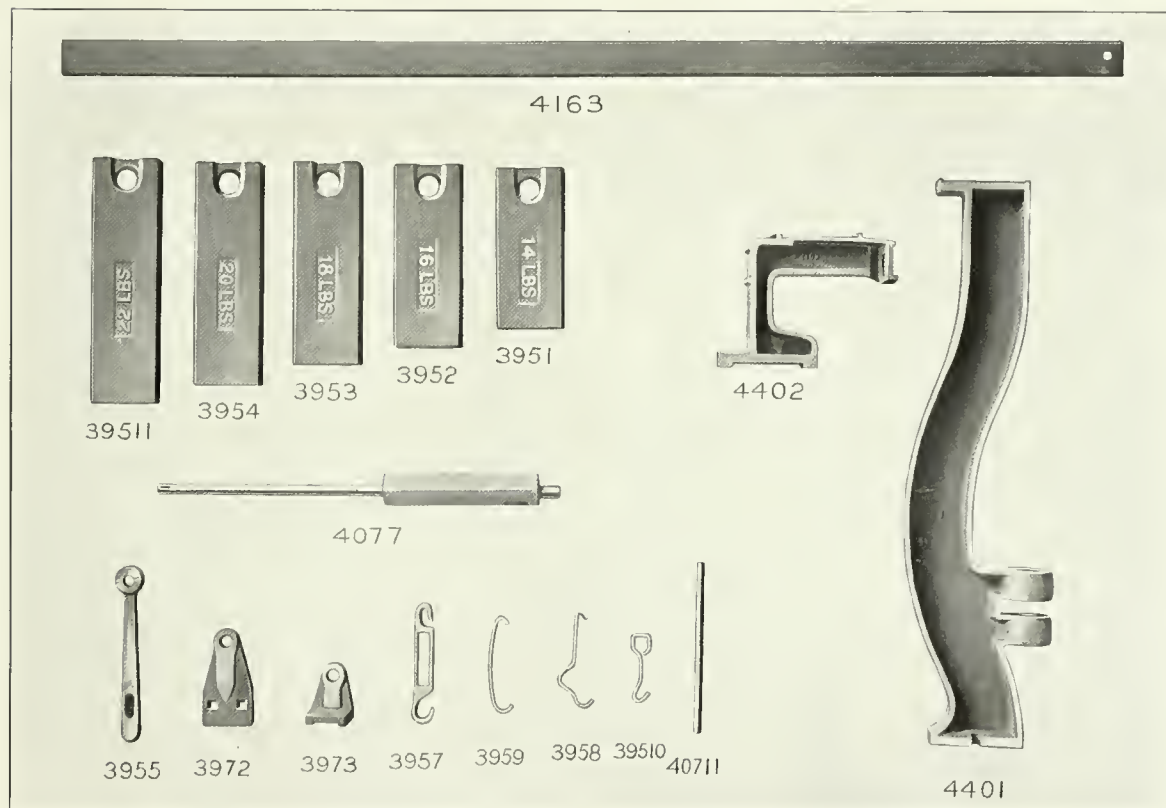
4023

3986

WOONSOCKET MACHINE
AND PRESS COMPANY

No.
3883. Weight Bar, 5 Del.
4163. Weight Bar, 4 Del.
4173. Weight Bar, 6 Del.
3951. 14 lb. Weight.
3952. 16 lb. Weight.
3953. 18 lb. Weight.
3954. 20 lb. Weight.
39511. 22 lb. Weight.
3955. Weight Handle.
3957. Weight Hook.

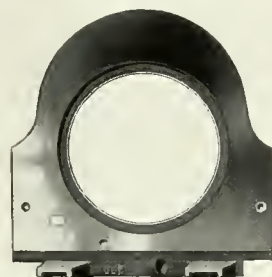
No.
3958. Front Top Weight Hook.
3959. Back Top Weight Hook.
39510. Middle Top Weight Hook.
3972. Back Weight Bracket.
3973. Front Weight Bracket.
4077. Weight Eccentric.
40711. Weight Bar Pin.
4401. Middle Sampson.
4402. Middle Sampson Bracket.



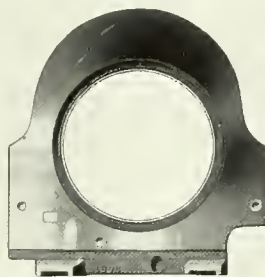
WOONSOCKET MACHINE
AND PRESS COMPANY

No.	
3661.	Spectacle.
3661D.	Spectacle Middle.
3662.	Coiler Gear Cover.
3671.	Coiler Gear 10''.
3671D.	Coiler Gear 12''.
4101.	Coiler Shaft Cover, Head and Middle Sections, 6 Del.
4101D.	Coiler Shaft Cover, Foot End Section, 5 and 6 Del.
4102.	Coiler Shaft Cover, Middle Section, 5 Del.

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AND PRESS COMPANY



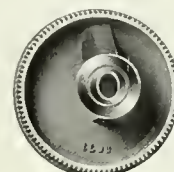
366I



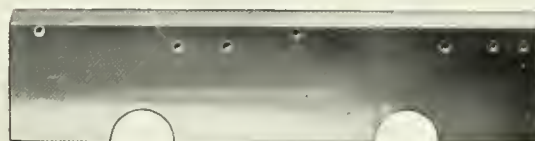
366I D



367I



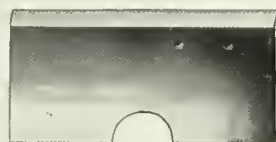
367I D



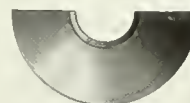
410I D



410I



4102



3662

WOONSOCKET MACHINE
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No.	
3691.	Loose Pulley.
3692.	Tight Pulley.
3693.	Pulley Stand.
3694.	Pulley Stand Cap.
3695.	Loose Pulley Bushing.
3696.	Crown Gear Head Bearing.
3697.	Pulley Stand Cap Bolt.
3751.	Crown Gear Head, Old Style.
3752.	Crown Gear Pipe Box.
3753.	Crown Gear Pipe Box Stud.
3861.	Carrier Gear Head.
3862.	Carrier Gear Bar.
3863.	Third Roll Carrier Gear Stud.
3864.	Second Roll Carrier Gear Stud.

No.	
3901.	Traverse Gear Head, Old Style.
3902.	Traverse Cam Worm Wheel Bracket.
3903.	Traverse Intermediate Gear Bushing.
3904.	Traverse Cam Worm Wheel Pin.
3905.	Traverse Cam Worm.
3906.	Traverse Gear Head Pin.
3907.	Twin Idler Stud.
3908.	Coiler Shaft Idler Stud.
3915.	Traverse Cam Finger Pin.
3916.	Traverse Cam Worm Wheel.
3917.	Traverse Cam Finger.
4201.	Crown Gear Head, Regular.
4431.	Traverse Gear Head, Regular.

3691 3692 3751 4201

3694 3697 3695 3752 3753 3696 3908 3907

3693 3862 4431 3901 3902

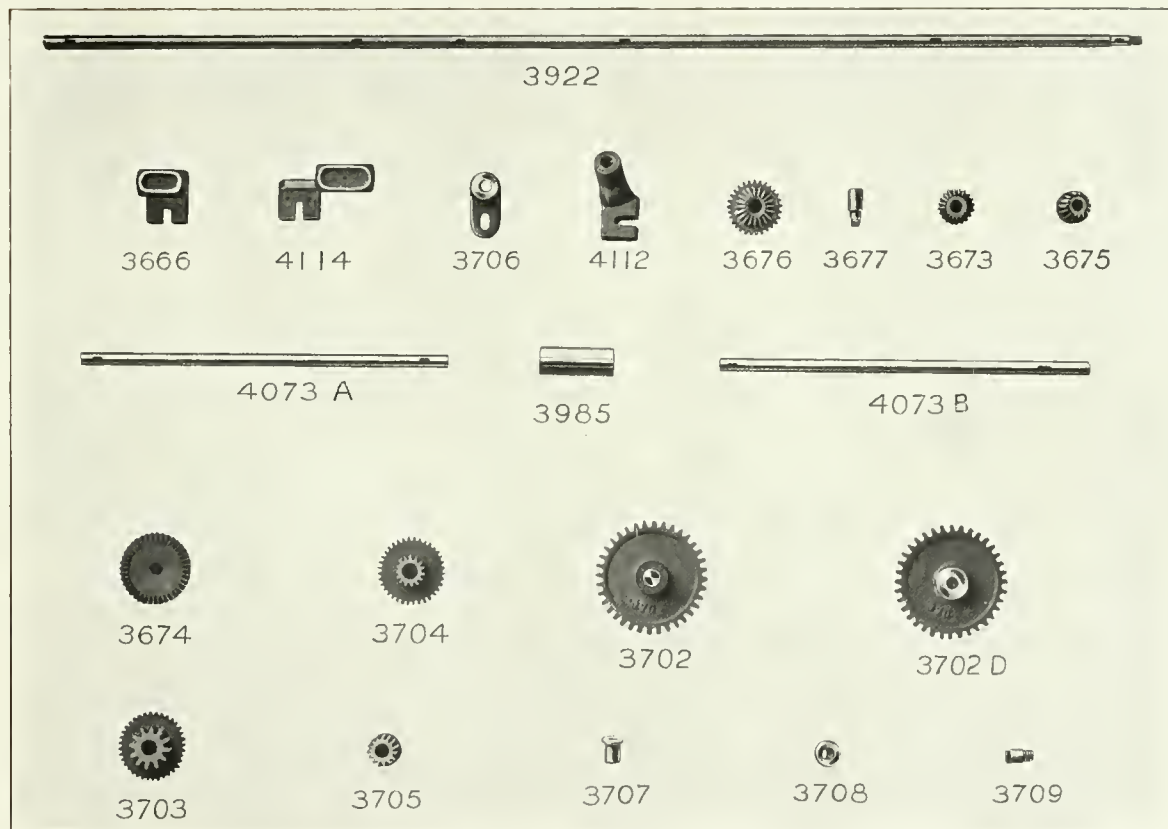
3861 3863 3864 3906 3905 3917 3916

3861 3915 3904

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3666.	Coiler Shaft Bearing.	3707.	Turn Table Intermediate Gear Bushing.
3673.	Coiler Gear Bevel Gear.	3708.	Turn Table Shaft Collar.
3674.	Turn Table Shaft Bevel Gear.	3709.	Turn Table Idler Gear Stud.
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3702D.	Turn Table Idler Gear, Old Style.	3985.	Turn Table Shaft Coupling.
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3705.	Turn Table Driving Pinion.	4114.	Coiler Shaft End Bearing.
3706.	Turn Table Shaft Lower Bearing.		

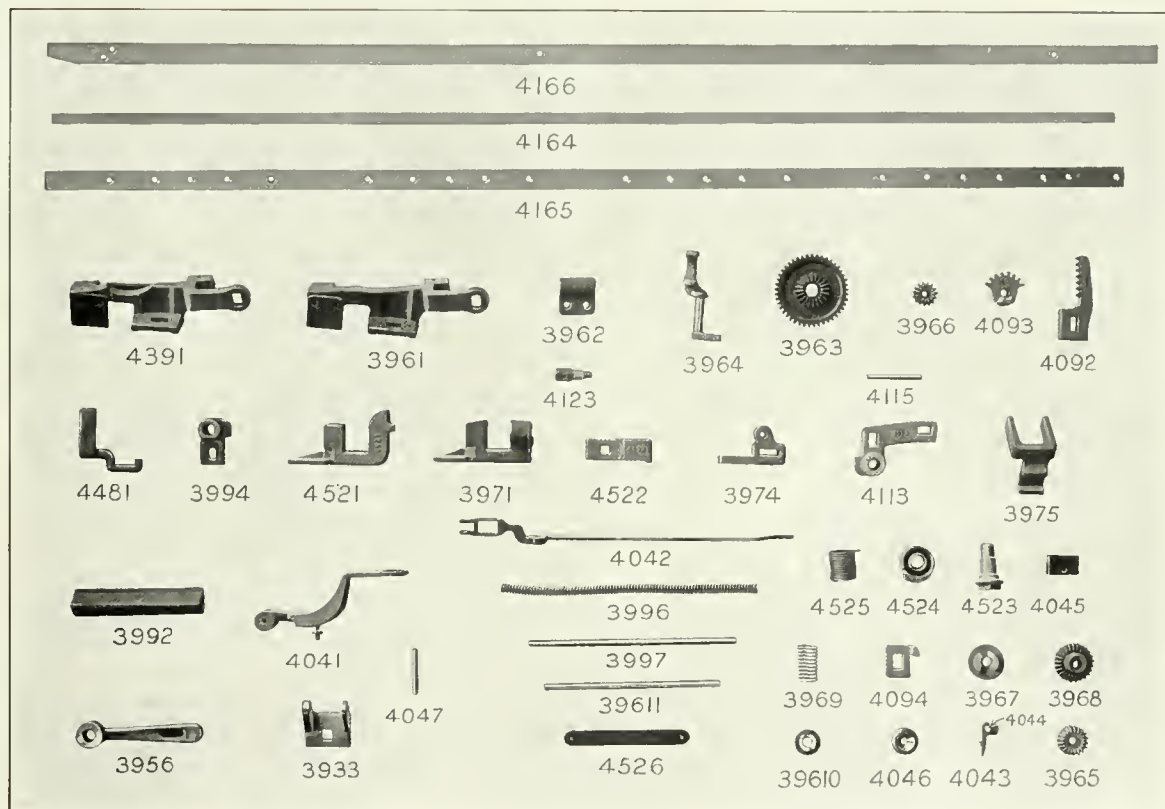
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3884.	Traverse Rod, 5 Del.	3994.	Stop Motion Shaft Bearing.
4164.	Traverse Rod, 4 Del.	3996.	Latch Spring, Old Style.
4174.	Traverse Rod, 6 Del.	3997.	Latch Spring Rod, Old Style.
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3886.	Shipper Bar, 5 Del.	4043.	Full Can Stop Motion Lever.
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3956.	Shipper Handle.	4047.	Front Stop Motion Lever Pin.
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3964.	Latch Release.	4113.	Stop Motion Shaft Long Bearing.
3965.	Stop Motion Spur Gear Mitre.	4115.	Stop Motion Shaft Long Bearing Oil Tube
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3974.	Shipper Bracket, Old Style.	4525.	Latch Spring, Regular.
3975.	Shipper Fork, Old Style.	4526.	Latch Strap.
3992.	Stop Motion Spider.		

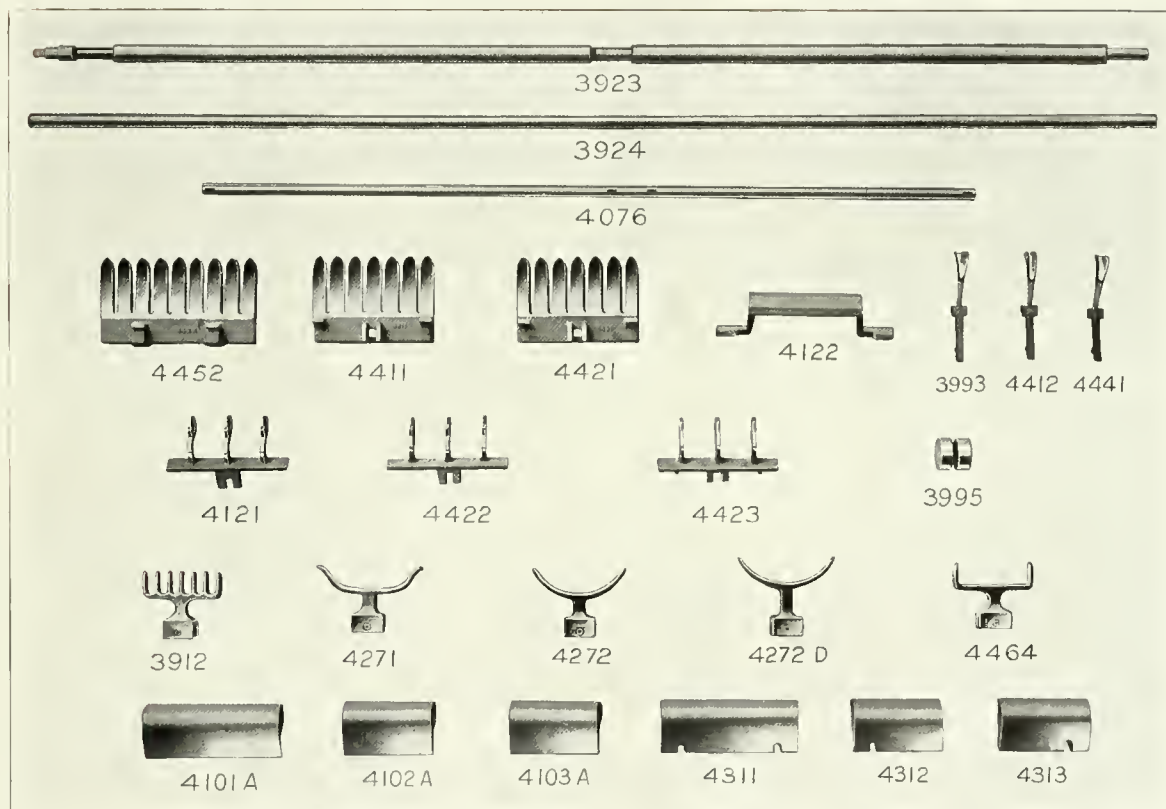
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4121.	Preventer Roll Bracket, Old Style.	4464.	Traverse Sliver Guide, Regular.
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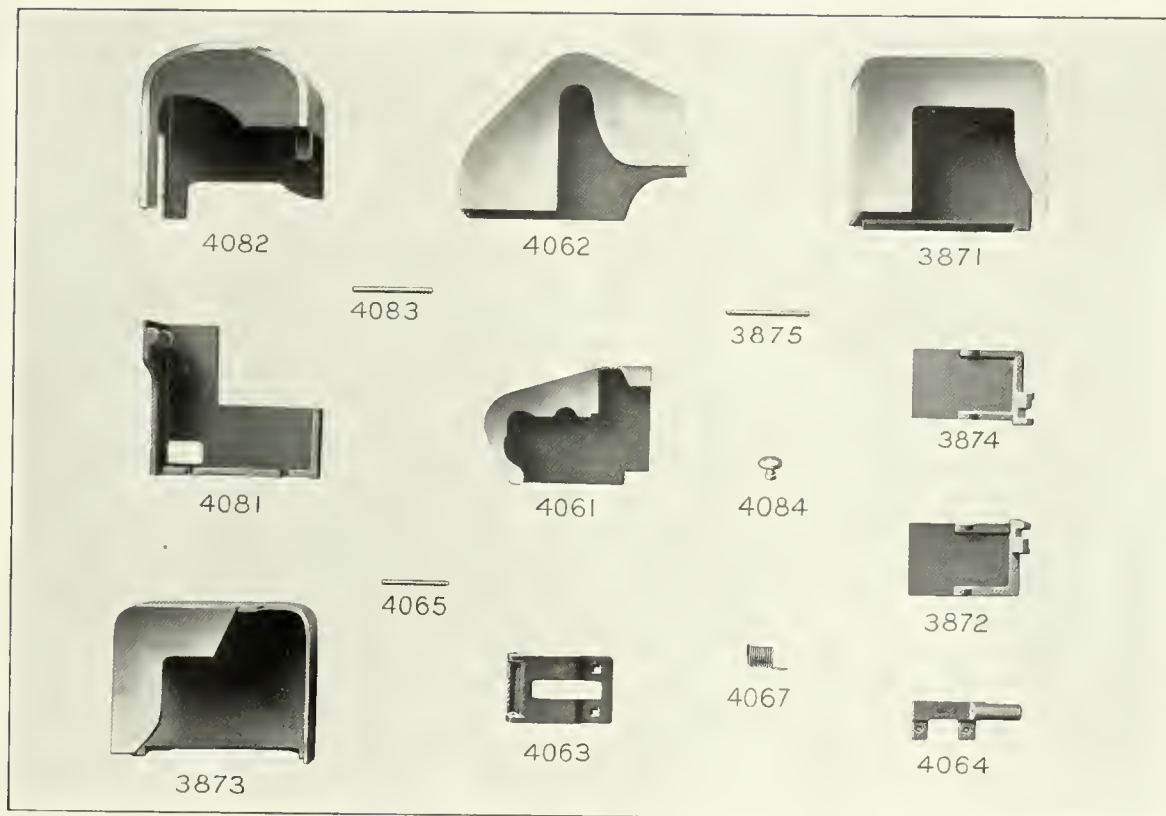


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AND PRESS COMPANY

No.	
3871.	Carrier Gear Cover.
3872.	Carrier Gear Cover Bracket.
3873.	Carrier Gear Cover, Ermin Clearer.
3874.	Carrier Gear Cover Stand.
3875.	Carrier Gear Cover Pin.
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No.	
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4067.	Traverse Gear Cover Spring.
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4082.	Crown Gear Cover, Upper Half.
4083.	Crown Gear Cover Pin.
4084.	Cover Handle.

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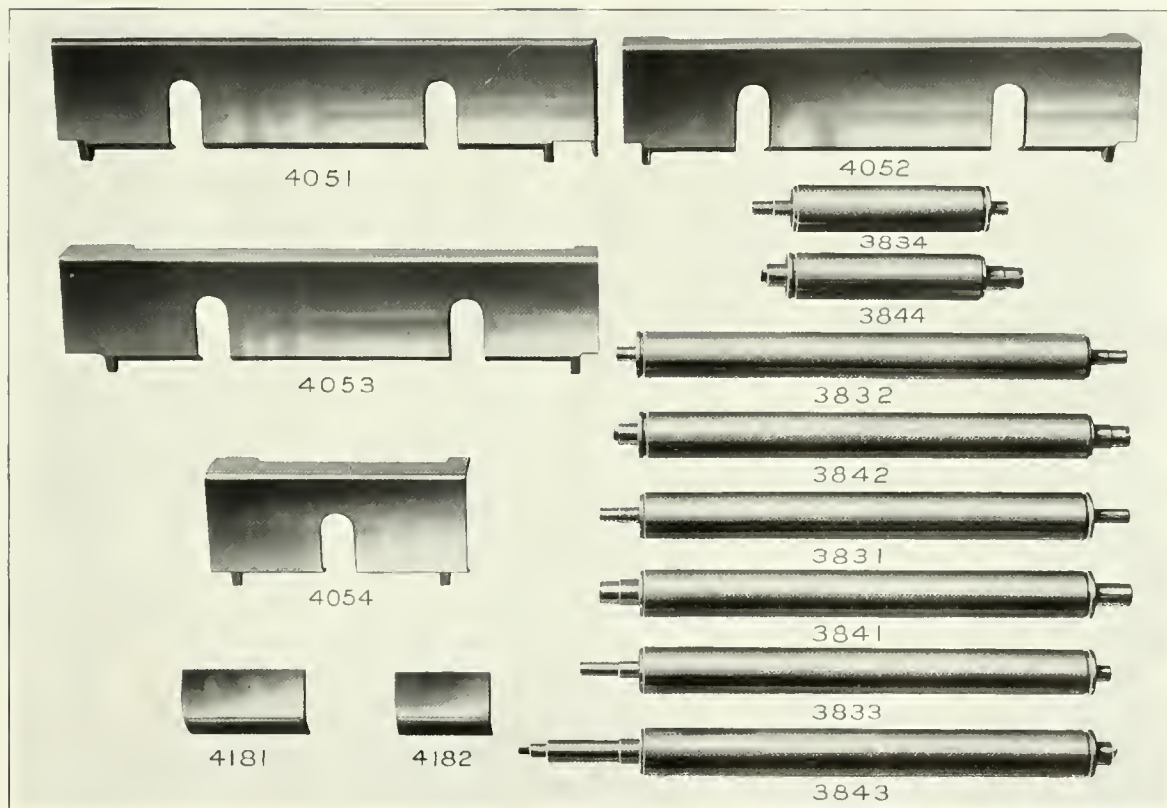


WOONSOCKET MACHINE
AND PRESS COMPANY

No.
3831. Front Calender Roll, Foot End.
3832. Front Calender Roll, Middle, 6 Del.
3833. Front Calender Roll, Head End.
3834. Front Calender Roll, Middle, 5 Del.
3841. Back Calender Roll, Foot End.
3842. Back Calender Roll, Middle, 6 Del.
3843. Back Calender Roll, Head End.

No.
3844. Back Calender Roll, Middle, 5 Del.
4051. Calender Roll Cover, Foot End.
4052. Calender Roll Cover, Head End.
4053. Calender Roll Cover, Middle, 6 Del.
4054. Calender Roll Cover, Middle, 5 Del.
4181. Front Filling In Cover, Foot End.
4182. Front Filling In Cover, Head End.

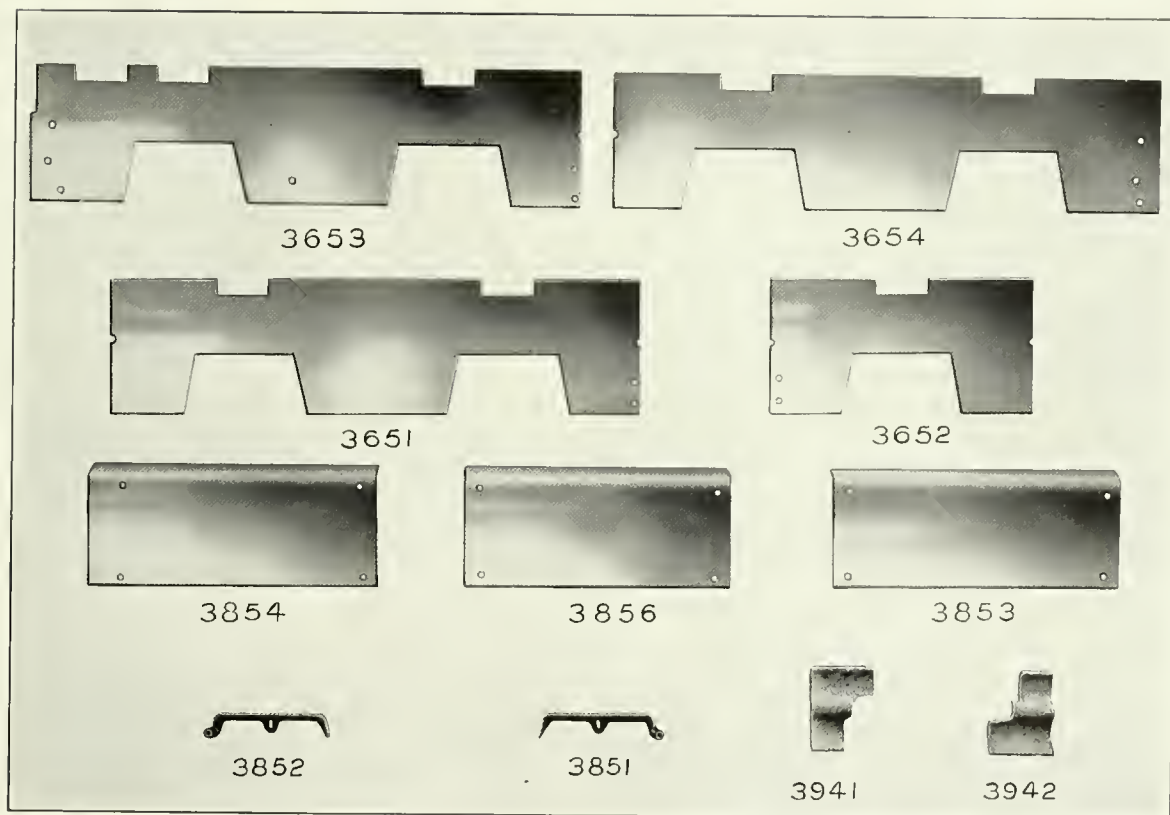
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No.	
3651.	Back Flat Cover, Head End.
3652.	Back Flat Cover, Foot End.
3653.	Back Flat Cover, Middle, 6 Del.
3654.	Back Flat Cover, Middle, 5 Del.
3851.	Common Clearer Cover End, R. H.
3852.	Common Clearer Cover End, L. H.

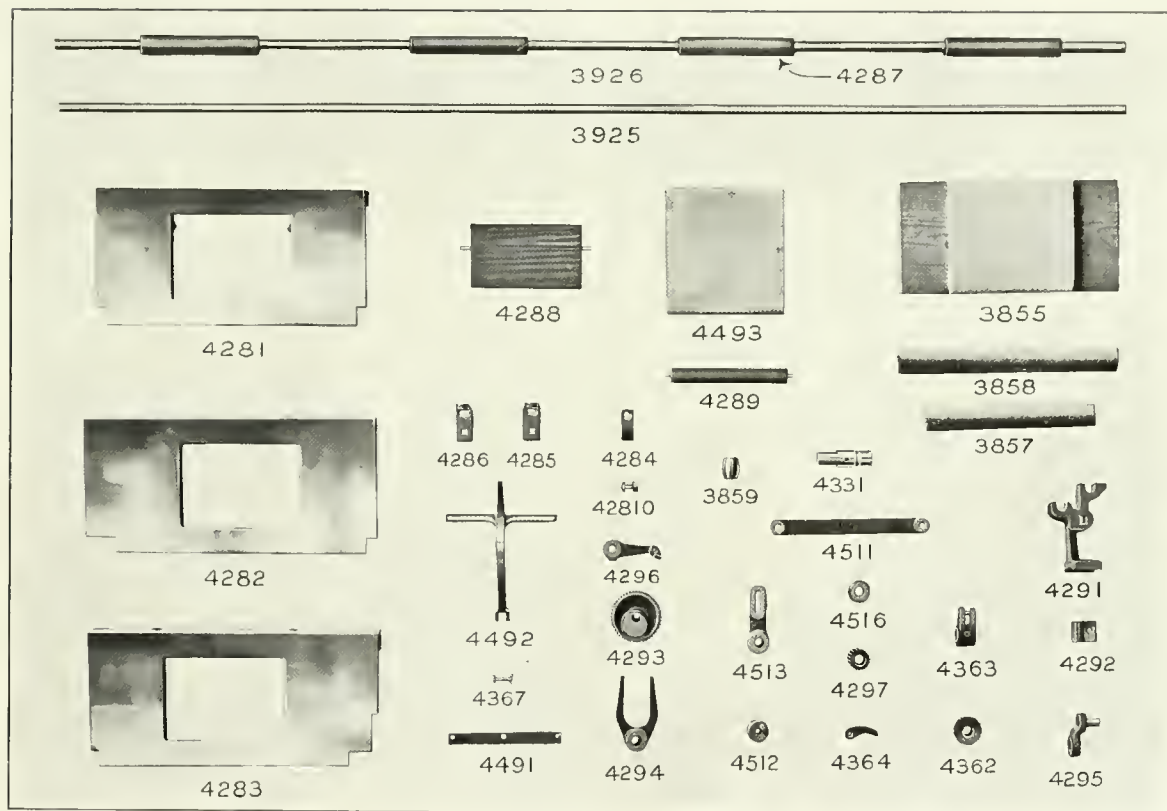
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3854.	Common Clearer Cover, Foot End.
3856.	Common Clearer Cover, Middle.
3941.	Calender Roll Clearer, Half.
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AND PRESS COMPANY

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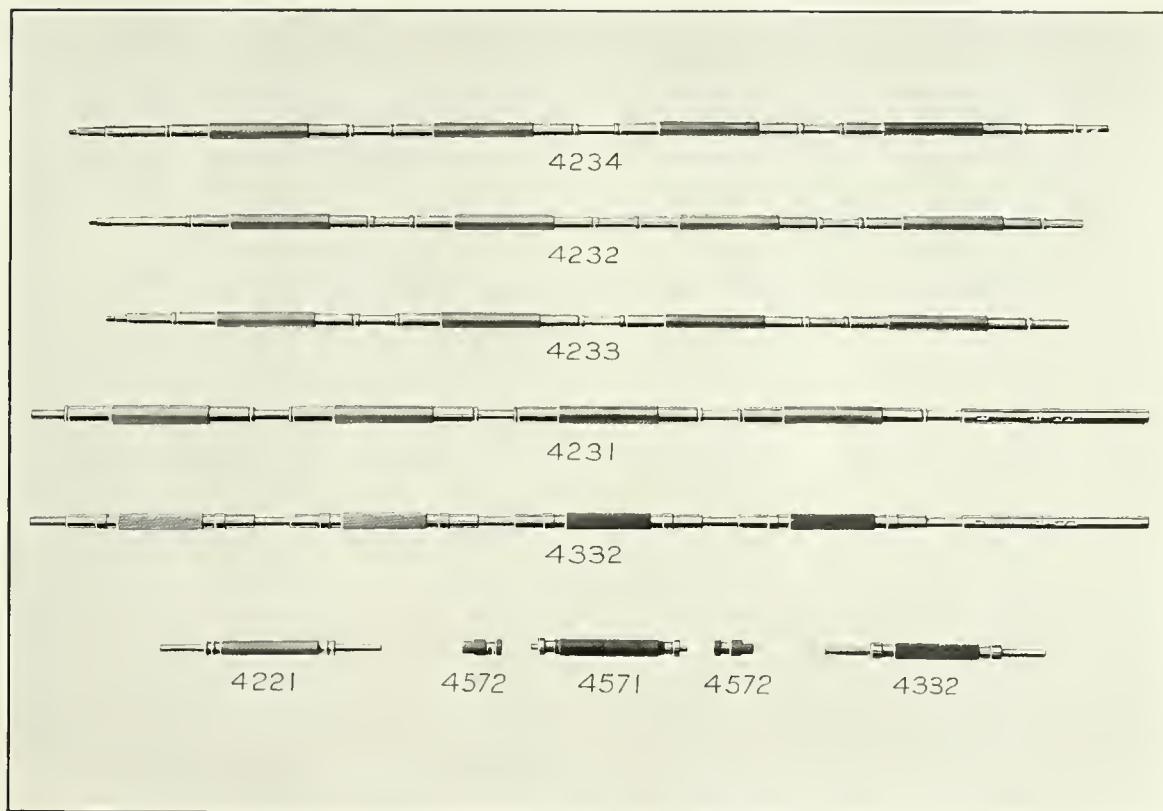
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